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Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Oct 17 12:50:35 EDT 2007

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Application No: 10595559 Version No: 1.0

Input Set:

Output Set:

Started: 2007-10-01 13:20:46.903
Finished: 2007-10-01 13:20:48.664
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 761 ms
Total Warnings: 16
Total Errors: 1
No. of SeqIDs Defined: 51
Actual SeqID Count: 51

Error code	Error Description
W 402	Undefined organism found in <213> in SEQ ID (16)
E 257	Invalid sequence data feature in <221> in SEQ ID (36)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
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W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48)
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W 213	Artificial or Unknown found in <213> in SEQ ID (50)
W 213	Artificial or Unknown found in <213> in SEQ ID (51)

SEQUENCE LISTING

<110> GUTHRIDGE, MARK
 RAMSHAW, HAYLEY
 STOMSKI, FRANK
 LOPEZ, ANGEL

<120> A BINDING MOTIF AND METHODS OF REGULATING CELL
 FUNCTION

<130> 03391/0204241-US0

<140> 10595559

<141> 2007-10-01

<150> PCT/AU04/01480

<151> 2004-10-27

<150> AU 2003-905932

<151> 2003-10-27

<160> 51

<170> PatentIn Ver. 3.3

<210> 1

<211> 897

<212> PRT

<213> Homo sapiens

<400> 1

Met Val Leu Ala Gln Gly Leu Leu Ser Met Ala Leu Leu Ala Leu Cys
 1 5 10 15

Trp Glu Arg Ser Leu Ala Gly Ala Glu Glu Thr Ile Pro Leu Gln Thr
 20 25 30

Leu Arg Cys Tyr Asn Asp Tyr Thr Ser His Ile Thr Cys Arg Trp Ala
 35 40 45

Asp Thr Gln Asp Ala Gln Arg Leu Val Asn Val Thr Leu Ile Arg Arg
 50 55 60

Val Asn Glu Asp Leu Leu Glu Pro Val Ser Cys Asp Leu Ser Asp Asp
 65 70 75 80

Met Pro Trp Ser Ala Cys Pro His Pro Arg Cys Val Pro Arg Arg Cys
 85 90 95

Val Ile Pro Cys Gln Ser Phe Val Val Thr Asp Val Asp Tyr Phe Ser
 100 105 110

Phe Gln Pro Asp Arg Pro Leu Gly Thr Arg Leu Thr Val Thr Leu Thr
 115 120 125

Gln His Val Gln Pro Pro Glu Pro Arg Asp Leu Gln Ile Ser Thr Asp

130		135		140	
Gln Asp His Phe Leu Leu Thr Trp Ser Val Ala Leu Gly Ser Pro Gln					
145		150		155	160
Ser His Trp Leu Ser Pro Gly Asp Leu Glu Phe Glu Val Val Tyr Lys					
	165		170		175
Arg Leu Gln Asp Ser Trp Glu Asp Ala Ala Ile Leu Leu Ser Asn Thr					
	180		185		190
Ser Gln Ala Thr Leu Gly Pro Glu His Leu Met Pro Ser Ser Thr Tyr					
	195		200		205
Val Ala Arg Val Arg Thr Arg Leu Ala Pro Gly Ser Arg Leu Ser Gly					
	210		215		220
Arg Pro Ser Lys Trp Ser Pro Glu Val Cys Trp Asp Ser Gln Pro Gly					
225		230		235	240
Asp Glu Ala Gln Pro Gln Asn Leu Glu Cys Phe Phe Asp Gly Ala Ala					
	245		250		255
Val Leu Ser Cys Ser Trp Glu Val Arg Lys Glu Val Ala Ser Ser Val					
	260		265		270
Ser Phe Gly Leu Phe Tyr Lys Pro Ser Pro Asp Ala Gly Glu Glu Glu					
	275		280		285
Cys Ser Pro Val Leu Arg Glu Gly Leu Gly Ser Leu His Thr Arg His					
	290		295		300
His Cys Gln Ile Pro Val Pro Asp Pro Ala Thr His Gly Gln Tyr Ile					
305		310		315	320
Val Ser Val Gln Pro Arg Arg Ala Glu Lys His Ile Lys Ser Ser Val					
	325		330		335
Asn Ile Gln Met Ala Pro Pro Ser Leu Asn Val Thr Lys Asp Gly Asp					
	340		345		350
Ser Tyr Ser Leu Arg Trp Glu Thr Met Lys Met Arg Tyr Glu His Ile					
	355		360		365
Asp His Thr Phe Glu Ile Gln Tyr Arg Lys Asp Thr Ala Thr Trp Lys					
	370		375		380
Asp Ser Lys Thr Glu Thr Leu Gln Asn Ala His Ser Met Ala Leu Pro					
385		390		395	400
Ala Leu Glu Pro Ser Thr Arg Tyr Trp Ala Arg Val Arg Val Arg Thr					
	405		410		415
Ser Arg Thr Gly Tyr Asn Gly Ile Trp Ser Glu Trp Ser Glu Ala Arg					
	420		425		430
Ser Trp Asp Thr Glu Ser Val Leu Pro Met Trp Val Leu Ala Leu Ile					

435		440		445	
Val Ile Phe Leu Thr Ile Ala Val Leu Leu Ala Leu Arg Phe Cys Gly					
450		455		460	
Ile Tyr Gly Tyr Arg Leu Arg Arg Lys Trp Glu Glu Lys Ile Pro Asn					
465		470		475	480
Pro Ser Lys Ser His Leu Phe Gln Asn Gly Ser Ala Glu Leu Trp Pro					
	485		490		495
Pro Gly Ser Met Ser Ala Phe Thr Ser Gly Ser Pro Pro His Gln Gly					
	500		505		510
Pro Trp Gly Ser Arg Phe Pro Glu Leu Glu Gly Val Phe Pro Val Gly					
	515		520		525
Phe Gly Asp Ser Glu Val Ser Pro Leu Thr Ile Glu Asp Pro Lys His					
	530		535		540
Val Cys Asp Pro Pro Ser Gly Pro Asp Thr Thr Pro Ala Ala Ser Asp					
545		550		555	560
Leu Pro Thr Glu Gln Pro Pro Ser Pro Gln Pro Gly Pro Pro Ala Ala					
	565		570		575
Ser His Thr Pro Glu Lys Gln Ala Ser Ser Phe Asp Phe Asn Gly Pro					
	580		585		590
Tyr Leu Gly Pro Pro His Ser Arg Ser Leu Pro Asp Ile Leu Gly Gln					
	595		600		605
Pro Glu Pro Pro Gln Glu Gly Gly Ser Gln Lys Ser Pro Pro Pro Gly					
	610		615		620
Ser Leu Glu Tyr Leu Cys Leu Pro Ala Gly Gly Gln Val Gln Leu Val					
625		630		635	640
Pro Leu Ala Gln Ala Met Gly Pro Gly Gln Ala Val Glu Val Glu Arg					
	645		650		655
Arg Pro Ser Gln Gly Ala Ala Gly Ser Pro Ser Leu Glu Ser Gly Gly					
	660		665		670
Gly Pro Ala Pro Pro Ala Leu Gly Pro Arg Val Gly Gly Gln Asp Gln					
	675		680		685
Lys Asp Ser Pro Val Ala Ile Pro Met Ser Ser Gly Asp Thr Glu Asp					
	690		695		700
Pro Gly Val Ala Ser Gly Tyr Val Ser Ser Ala Asp Leu Val Phe Thr					
705		710		715	720
Pro Asn Ser Gly Ala Ser Ser Val Ser Leu Val Pro Ser Leu Gly Leu					
	725		730		735
Pro Ser Asp Gln Thr Pro Ser Leu Cys Pro Gly Leu Ala Ser Gly Pro					

740	745	750
Pro Gly Ala Pro Gly Pro Val Lys Ser Gly Phe Glu Gly Tyr Val Glu		
755	760	765
Leu Pro Pro Ile Glu Gly Arg Ser Pro Arg Ser Pro Arg Asn Asn Pro		
770	775	780
Val Pro Pro Glu Ala Lys Ser Pro Val Leu Asn Pro Gly Glu Arg Pro		
785	790	795 800
Ala Asp Val Ser Pro Thr Ser Pro Gln Pro Glu Gly Leu Leu Val Leu		
805	810	815
Gln Gln Val Gly Asp Tyr Cys Phe Leu Pro Gly Leu Gly Pro Gly Pro		
820	825	830
Leu Ser Leu Arg Ser Lys Pro Ser Ser Pro Gly Pro Gly Pro Glu Ile		
835	840	845
Lys Asn Leu Asp Gln Ala Phe Gln Val Lys Lys Pro Pro Gly Gln Ala		
850	855	860
Val Pro Gln Val Pro Val Ile Gln Leu Phe Lys Ala Leu Lys Gln Gln		
865	870	875 880
Asp Tyr Leu Ser Leu Pro Pro Trp Glu Val Asn Lys Pro Gly Glu Val		
885	890	895

Cys

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 <213> Homo sapiens

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 Asn Gly Pro Tyr Leu Gly Pro Pro His Ser Arg Ser Leu Pro
 1 5 10

<210> 3
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 3
 Asn Val His Tyr Arg Thr Pro Lys Thr His Thr Met Pro
 1 5 10

<210> 4
 <211> 15
 <212> PRT
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<400> 4

Arg Tyr Phe Thr Gln Lys Glu Glu Thr Glu Ser Gly Ser Gly Pro
1 5 10 15

<210> 5

<211> 22

<212> PRT

<213> Homo sapiens

<400> 5

Asn Lys Lys Tyr Glu Leu Gln Asp Arg Asp Val Cys Glu Pro Arg Tyr
1 5 10 15

Arg Ser Val Ser Glu Pro
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<210> 6

<211> 13

<212> PRT

<213> Homo sapiens

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Asn Pro Thr Tyr Ser Val Met Arg Ser His Ser Tyr Pro
1 5 10

<210> 7

<211> 24

<212> PRT

<213> Homo sapiens

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Asn Ile Phe Tyr Leu Ile Arg Lys Ser Gly Ser Phe Pro Met Pro Glu
1 5 10 15

Leu Lys Leu Ser Ile Ser Phe Pro
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<210> 8

<211> 19

<212> PRT

<213> Homo sapiens

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Asn Glu Glu Tyr Leu Asp Leu Ser Gln Pro Leu Glu Gln Tyr Ser Pro
1 5 10 15

Ser Tyr Pro

<210> 9

<211> 19

<212> PRT

<213> Homo sapiens

<400> 9

Asn Gln Glu Tyr Leu Asp Leu Ser Met Pro Leu Asp Gln Tyr Ser Pro
1 5 10 15

Ser Phe Pro

<210> 10

<211> 16

<212> PRT

<213> Homo sapiens

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Asn Ala Thr Tyr Lys Val Asp Val Ile Gln Arg Thr Arg Ser Lys Pro
1 5 10 15

<210> 11

<211> 11

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<213> Homo sapiens

<400> 11

Asn Pro Glu Tyr His Ser Ala Ser Ser Gly Pro
1 5 10

<210> 12

<211> 10

<212> PRT

<213> Homo sapiens

<400> 12

Asn Pro Asp Tyr Trp Asn His Ser Leu Pro
1 5 10

<210> 13

<211> 23

<212> PRT

<213> Homo sapiens

<400> 13

Asn Pro Ser Tyr Ser Ser Asn Pro Phe Val Asn Tyr Asn Lys Thr Ser
1 5 10 15

Ile Cys Ser Lys Ser Asn Pro
20

<210> 14

<211> 11

<212> PRT

<213> Homo sapiens

<400> 14

Asn Thr Leu Tyr Phe Asn Ser Gln Ser Ser Pro
1 5 10

<210> 15

<211> 24

<212> PRT

<213> Homo sapiens

<400> 15

Asn Pro Val Tyr Gln Lys Thr Thr Glu Asp Glu Val His Ile Cys His
1 5 10 15

Asn Gln Asp Gly Tyr Ser Tyr Pro
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<210> 16

<211> 24

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<213> Rattus sp.

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Gly Arg His Ser Ala Ser Val Gly
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<211> 38

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<213> Homo sapiens

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Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp Asp Val Gly
1 5 10 15

Gly Leu Leu Asp Ala Asp Phe Ala Leu Asp Pro Asp Lys Pro Thr Asn
20 25 30

Phe Thr Asn Pro Val Tyr
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<210> 18

<211> 12

<212> PRT

<213> Homo sapiens

<400> 18

Asn Pro Ile Tyr Lys Ser Ala Val Thr Thr Val Val
1 5 10

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<400> 19
Asn Pro Leu Tyr Lys Ser Ala Ile Thr Thr Thr Val
1 5 10

<210> 20
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<400> 20
Asn Pro Leu Tyr Lys Glu Ala Thr Ser Thr Phe Thr
1 5 10

<210> 21
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<400> 21
Asn Pro Leu Tyr Arg Lys Pro Ile Ser Thr His Thr
1 5 10

<210> 22
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<212> PRT
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<400> 22
Asn Pro Leu Tyr Arg Gly Ser Thr Ser Thr Phe Lys
1 5 10

<210> 23
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Pro Gly His Tyr Leu Arg Cys Asp Ser Thr Gln Pro
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<210> 24
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<213> Homo sapiens

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Val Gln Thr Tyr Val Leu Gln Gly Asp Pro Arg Ala Val Ser Thr Gln
1 5 10 15

Pro

<210> 25

<211> 14

<212> PRT

<213> Homo sapiens

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Gln Val Leu Tyr Gly Gln Leu Leu Gly Ser Pro Thr Ser Pro
1 5 10

<210> 26

<211> 22

<212> PRT

<213> Homo sapiens

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His Ser Gly Tyr Arg His Gln Val Pro Ser Val Gln Val Phe Ser Arg
1 5 10 15

Ser Glu Ser Thr Gln Pro
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<210> 27

<211> 17

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<213> Homo sapiens

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Trp Lys Met Tyr Glu Val Tyr Asp Ala Lys Ser Lys Ser Val Ser Leu
1 5 10 15

Pro

<210> 28

<211> 16

<212> PRT

<213> Homo sapiens

<400> 28

Lys Ile Pro Tyr Phe His Ala Gly Gly Ser Lys Cys Ser Thr Trp Pro
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<210> 29

<211> 19

<212> PRT

<213> Homo sapiens

<400> 29

Glu Leu Asp Tyr Cys Leu Lys Gly Leu Lys Leu Pro Ser Arg Thr Trp
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Ser Pro Pro

<210> 30

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<213> Homo sapiens

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Ser Gly Asp Tyr Met Pro Met Ser Pro Lys Ser Val Ser Ala Pro
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<211> 38

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<213> Homo sapiens

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Ser Phe Tyr Tyr Ser Glu Glu Asn Lys Leu Pro Glu Pro Glu Glu Leu
1 5 10 15

Asp Leu Glu Pro Glu Asn Met Glu Ser Val Pro Leu Asp Pro Ser Ala
20 25 30

Ser Ser Ser Ser Leu Pro
35

<210> 32

<211> 22

<212> PRT

<213> Homo sapiens

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Glu Glu Ile Tyr Ile Ile Met Gln Ser Cys Trp Ala Phe Asp Ser Arg
1 5 10 15

Lys Arg Pro Ser Phe Pro
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<210> 33

<211> 14

<212> PRT

<213> Homo sapiens

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Ile Ser Gln Tyr Leu Gln Asn Ser Lys Arg Lys Ser Arg Pro
1 5 10

<210> 34
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<400> 34
Gly Thr Ala Tyr Gly Leu Ser Arg Ser Gln Pro
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<210> 35
<211> 15
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<400> 35
Tyr Leu Pro Gln Glu Asp Trp Ala Pro Thr Ser Leu Thr Arg Pro
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<210> 36
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Lys Gln Gly Ala Asn Ser Arg Pro Val Asn Gln Thr Pro Pro Pro Glu
20 25 30

Gly Glu Lys Leu His Ser Asp Ser Gly Ile Ser
35 40

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Asn Val His Tyr
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Asn Pro Thr Tyr
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Asn Ile Phe Tyr
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Asn Glu Glu Tyr

1

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<223> Description of Artificial Sequence: Synthetic peptide

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Asn Gln Glu T